WHAT IS CLAIMED IS:

1. A method for identifying a compound which binds to a 14189 polypeptide comprising the steps of:

a) contacting a 14189 polypeptide with a test compound; and

b) determining whether the 14189 polypeptide binds to the test compound, wherein the 14189 polypeptide comprises a polypeptide selected from the group consisting of:

i) a polypeptide having kinase activity which is encoded by a nucleic acid comprising a nucleotide sequence which is at least 97% identical to the nucleic acid molecule of SEQ ID NO:1, nucleotides 48-1682 of SEQ ID NO:1, or the cDNA insert of the plasmid deposited with ATCC as Accession Number PTA-2333,

ii) a polypeptide encoded by a nucleic acid comprising the nucleotide sequence of SEQ ID NO:1, nucleotides 48-1682 of SEQ ID NO:1, or the cDNA insert of the plasmid deposited with ATCC as Accession Number PTA-2333,

iii) a polypeptide having the amino acid sequence of SEQ ID NO:2,

iv) a polypeptide comprising the serine kinase domain of 14189 (amino acid residues 13-304 of SEQ ID NO:2) wherein the serine kinase domain of 14189 has kinase activity,

v) a polypeptide comprising the amino acid sequence shown in SEQ ID NO:2 and a non-kinase polypeptide,

vi) a polypeptide comprising the serine kinase domain of 14189 (amino acid residues 13-304 of SEQ ID NO:2), wherein the serine kinase domain of 14189 has kinase activity, and a non-kinase polypeptide, and

vii) a fusion polypeptide encoded by a nucleic acid comprising a nucleotide sequence which encodes SEQ ID NO:2 operably linked to a non-kinase polypeptide.

2. The method of claim 1, wherein the binding of the test compound to the 14189 polypeptide is detected by a method selected from the group consisting of:

a) detection of binding by direct detecting of test compound/polypeptide binding;

b) detection of binding using a competition binding assay;

c) detection of binding using an assay for 14189 kinase activity; and

d) detection of binding using a two-hybrid assay.

3. The method of claim 1, wherein the 14189 polypeptide is expressed in a cell and the test compound is contacted with the cell expressing the 14189 polypeptide.

4. The method of claim 1, wherein the compound is identified in a cell-free assay.

5. The method of claim 1, wherein the 14189 polypeptide is immobilized on a solid surface.

6. The method of claim 1, wherein the test compound is directly or indirectly labeled.

7. A method for identifying a compound which binds to a 14189 polypeptide comprising:

a) contacting an assay mixture comprised of a 14189 polypeptide and a known compound that binds a 14189 polypeptide with a test compound; and

b) determining the ability of the test compound to modulate the activity of a kinase target molecule, wherein activity of the kinase target molecule indicates binding of the kinase target molecule with the 14189 polypeptide, wherein the 14189 polypeptide comprises a polypeptide selected from the group consisting of:

i) a polypeptide having kinase activity which is encoded by a nucleic acid comprising a nucleotide sequence which is at least 97% identical to the nucleic acid molecule of SEQ ID NO:1, nucleotides 48-1682 of SEQ ID NO:1, or the cDNA insert of the plasmid deposited with ATCC as Accession Number PTA-2333,

ii) a polypeptide encoded by a nucleic acid comprising the nucleotide sequence of SEQ ID NO:1, nucleotides 48-1682 of SEQ ID NO:1, or the cDNA insert of the plasmid deposited with ATCC as Accession Number PTA-2333,

iii) a polypeptide having the amino acid sequence of SEQ ID NO:2,

iv) a polypeptide comprising the serine kinase domain of 14189 (amino acid residues 13-304 of SEQ ID NO:2), wherein the serine kinase domain of 14189 has kinase activity,

v) a polypeptide comprising the amino acid sequence shown in SEQ ID NO:2 and a non-kinase polypeptide,

vi) a polypeptide comprising the serine kinase domain of 14189 (amino acid residues 13-304 of SEQ ID NO:2), wherein the serine kinase domain of 14189 has kinase activity, and a non-kinase polypeptide, and

vii) a fusion polypeptide encoded by a nucleic acid comprising a nucleotide sequence which encodes SEQ ID NO:2 operably linked to a non-kinase polypeptide.

8. The method of claim 7, wherein the activity of the kinase target molecule is selected from the group consisting of:

a) cellular second messenger activity,

b) catalytic/enzymatic activity,

c) reporter gene induction, and

d) cellular growth, differentiation or proliferation.

9. A method for identifying a compound which binds to a 14189 polypeptide, comprising:

a) contacting an assay mixture comprised of a 14189 polypeptide and a known compound that binds a 14189 polypeptide with a test compound; and

b) determining the ability of the test compound to preferentially bind to the 14189 polypeptide, wherein the 14189 polypeptide comprises a polypeptide selected from the group consisting of:

i) a polypeptide having kinase activity which is encoded by a nucleic acid comprising a nucleotide sequence which is at least 97% identical to the nucleic acid molecule of SEQ ID NO:1, nucleotides 48-1682 of SEQ ID NO:1, or the cDNA insert of the plasmid deposited with ATCC as Accession Number PTA-2333,

ii) a polypeptide encoded by a nucleic acid comprising the nucleotide sequence of SEQ ID NO:1, nucleotides 48-1682 of SEQ ID NO:1, or the cDNA insert of the plasmid deposited with ATCC as Accession Number PTA-2333,

iii) a polypeptide having the amino acid sequence of SEQ ID NO:2,

iv) a polypeptide comprising the serine kinase domain of 14189 (amino acid residues 13-304 of SEQ ID NO:2), wherein the serine kinase domain of 14189 has kinase activity,

v) a polypeptide comprising the amino acid sequence shown in SEQ ID NO:2 and a non-kinase polypeptide,

vi) a polypeptide comprising the serine kinase domain of 14189 (amino acid residues 13-304 of SEQ ID NO:2), wherein the serine kinase domain of 14189 has kinase activity, and a non-kinase polypeptide, and

vii) a fusion polypeptide encoded by a nucleic acid comprising a nucleotide sequence which encodes SEQ ID NO:2 operably linked to a non-kinase polypeptide.

10. The method of claim 9, wherein the 14189 polypeptide is immobilized on a solid surface.

11. The method of claim 9, wherein the test compound is immobilized on a solid surface.

12. The method of claim 9, wherein the binding of the test compound to the 14189 polypeptide is detected by a method selected from the group consisting of:

a) detection of binding by direct detecting of test compound/polypeptide binding;

b) detection of binding using a competition binding assay;

c) detection of binding using an assay for 14189 kinase activity; and

d) detection of binding using a two-hybrid assay.